

117

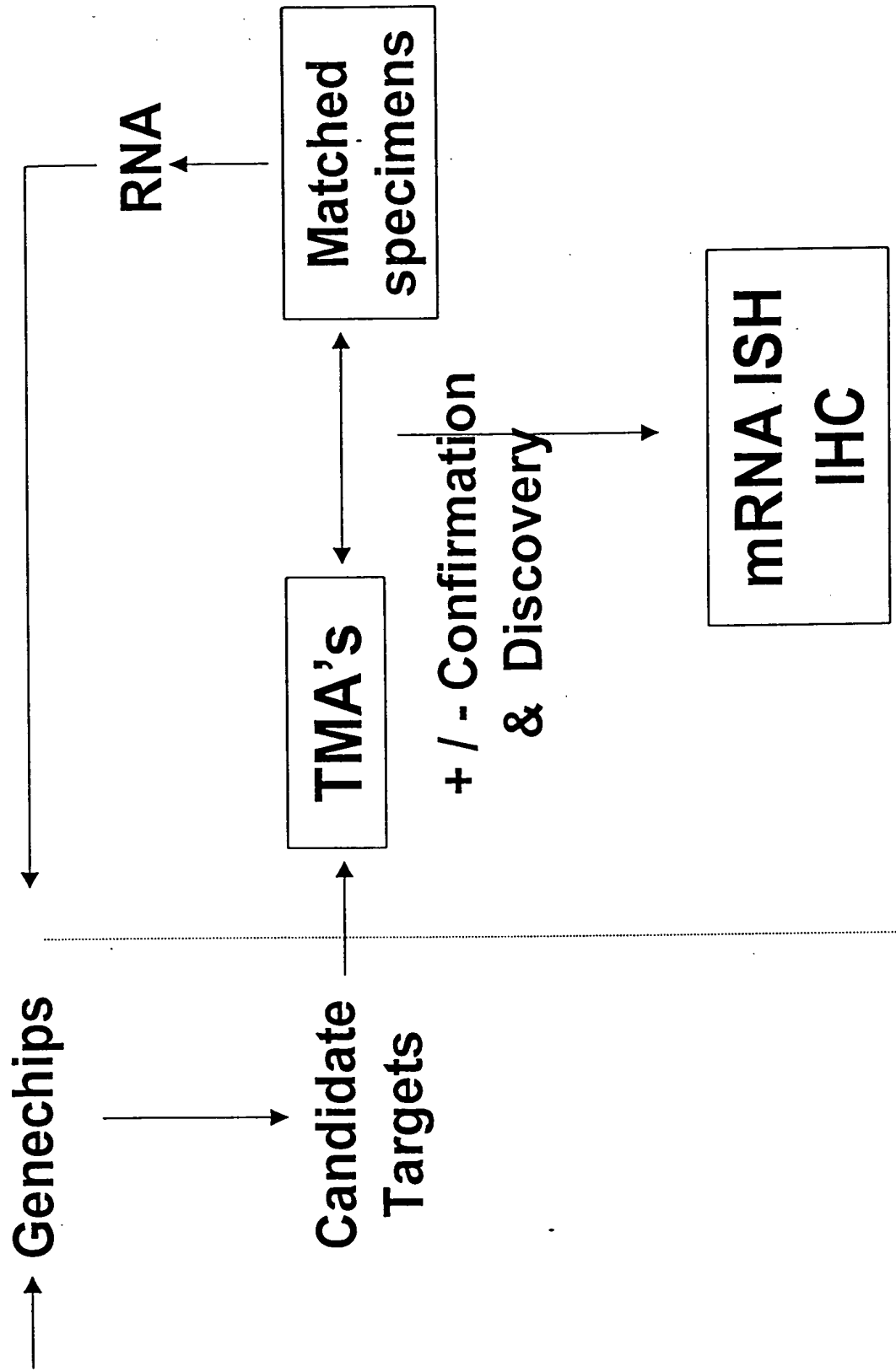
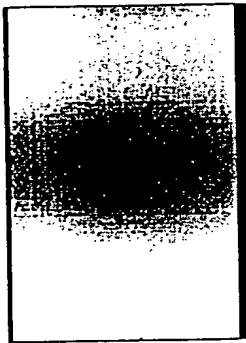


FIG. 1A

Validation - phase I

- verification of initial ---
- screening results
- establish cellular -----
- localization & anatomic
- distribution



50-200
series basic
arrays

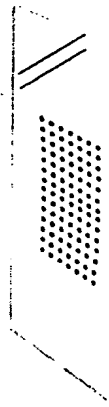


FIG. 1B

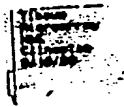


FIG. 2A

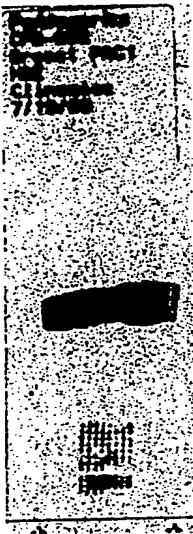


FIG. 2D

	1	2	3	4	5	6	7	8	
a	0	0	0	0	0	0	0	0	
b	0	0	0	0	0	0	0	0	
c	0	0	0	0	0	0	0	0	
d	0	0	0	0	0	0	0	0	A
e	0	0	0	0	0	0	0	0	
f	0	0	0	0	0	0	0	0	
a	0	0	0	0	0	0	0	0	B
b	0	0	0	0	0	0	0	0	
c	0	0	0	0	0	0	0	0	

FIG. 2B



Six tissue elements from a PathWork™ Breast Array BR50 stained with CK7 showing selective staining (400X). Tissue elements are 0.6mm in diameter and spaced 0.3mm apart.

FIG. 2C

Sample Data Sheet Information (for one tissue element, located at A1a)
provided with every pathWorks™ Tissue MicroArray

Cat. #	BR50	Mitoses:	1
Lot #	07	PT:	1
Coordinates:	A1a	pN:	0
Organ:	Breast	LN pos	0
Category:	Breast cancer, ductal	LN all	23
Sex:	F	Tumor dia.	15
Age:	67	Surgery:	mastectomy
BRE Grade:	G2		
Tubuli:	3		
Polymorphy:	3		

FIG 2E

Tissue MicroArrays

- Development of population databases
- High-throughput in situ analysis of DNA, RNA and protein
- Discovery of diagnostic and prognostic correlations
- Target prioritization

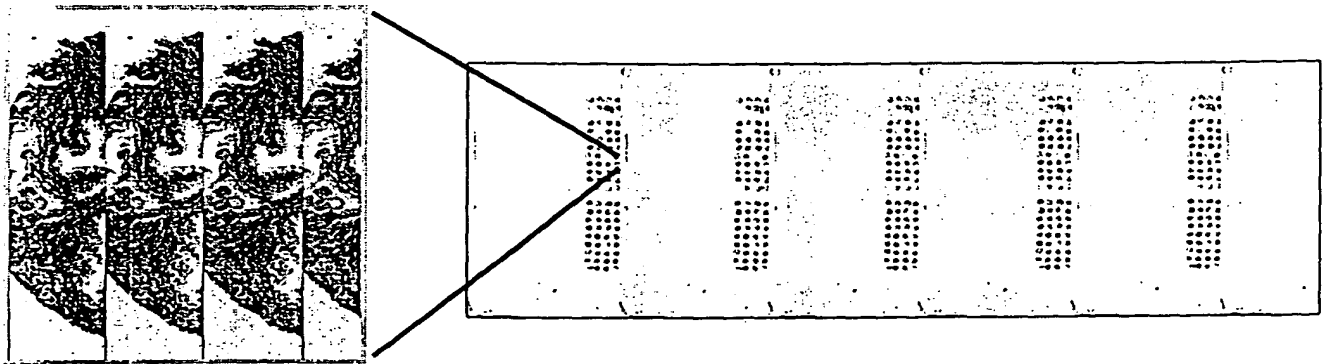


FIG. 3

5/7

The Clinomics Biorepository

Clinomics Biorepository Application - (limSpecimenEntry - Form)

File Edit View Insert Format Records Tools Window Help

Standard toolbar icons: Print, Copy, Paste, Undo, Redo, Find, etc.

Specimen Entry Form

Pathology # Pathology # H-983-90

Patient Data | Diagnosis | Histology | Specimen Data

Collection Date	6/19/1990	Age at Collection	83	Received Date	10/15/1999	Received Tech	CB	Specimen Type	tissue	Amount	block
Medication	CMF	Con Medication	Taxol	Metastasis Site	Lung	Evidence	Biopsy	Treatment	Chemotherapy	TINOMO	TNM Staging
Chemotherapy	Yes	Chemo Date	8/20/1990	Radiation Therapy	Yes	Radiation Date	7/15/1990	Node Status	Positive	Surgical Biopsy	Yes
Primary Site	Breast (I)	Tube Type	Conical	Surgical Resection	Yes						

Add New Pathology
Delete Existing Pathology
Save Record

Sample Data

ClinomicsID	Description	Location	Sample Type	Amount	Quota#
000002841		TPA, A. tubes	FFPE	block	0
000007489	Breast cancer	TPA, A. tubes	S	100 mg/l	0
000007491	Breast cancer	TPA, B. bags	FFPE	100 Mg	0
000007492	Breast cancer	TPA, B. bags	FFPE	100 mg	0
000007493	Breast cancer	TPA, A. tubes	FFPE	100 mg	0
000007494	Breast cancer	TPA, A. tubes	FFPE	100 mg	0

Record: 14 of 4771

Form View

Start | American | CD Pla. | HP 69... | Clino...

NUM

4:18 PM

Biorepository Database

617

coordinates on array	histology	BRCA grade	tumor diameter	pT	pN	nodes examined	nodes pos	censor	months survival	age	hormotherapy	chemotherapy	prophylactic
	ductal	1						0	58	33			
	microinvasive	1		90	3	1	28	0	78	43	no	yes	no
	ductal	2		60	3	2	10	0	29	54	yes	no	no
	ductal	1		20	1	0	8	0	96	55	no	no	no
	ductal	1		30	4	1	9	2	64	70	yes	no	no
	ductal	1		30	4	1	14	8	43	44	no	yes	no
	ductal	1		10	1	1	11	2	12	51			
	ductal	3		22	2	1	16	3	107	64	yes	no	no
	ductal	3		30	2	3	4	0	21	48			
	ductal	3			3	2		0	28	49			
	ductal	2		40	2	1	13	5	55	69			
	ductal	1		40	2	2	12	9	73	44			
	ductal	2		30	4	2	10	7	85	70			
	ductal	3		30	4	0	14	0	80	79	no	no	no

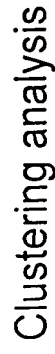
Medication and treatment histories, with outcomes, and expression profiles

FIG. 4B

Biorepository Database

Clustering analysis

Development of expression profiles vs. medical data



CLINOMICS

717